Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) A chimeric protein, which chimeric protein comprises a Flt3 ligand, or a biologically active fragment thereof, and a proteinuous proteinaceous or peptidyl tumoricidal agent, wherein said agent inhibits proliferation or reduces viability of tumor cells.
- (Original) The chimeric protein of claim 1, wherein the tumoricidal agent induces apoptosis.
- 3. (Original) The chimeric protein of claim 1, wherein the Flt3 ligand, or a biologically active fragment thereof, stimulates the proliferation of hematopoietic stem or progenitor cells.
- 4. (Original) The chimeric protein of claim 1, wherein the Flt3 ligand, or a biologically active fragment thereof, stimulates the proliferation of cells selected from the group consisting of myeloid precursor cells, monocytic cells, macrophages, B-cells, dendritic cells and NK cells.
- 5. (Original) The chimeric protein of claim 1, wherein the Flt3 ligand, or a biologically active fragment thereof, is a mammalian Flt3-ligand.
- 6. (Original) The chimeric protein of claim 1, wherein the mammalian Flt3 ligand, or a biologically active fragment thereof, is a human Flt3 ligand.
- 7. (Original) The chimeric protein of claim 1, wherein the Flt3 ligand, or a biologically active fragment thereof, is a soluble Flt3 ligand.

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- 8. (Currently amended) The chimeric protein of claim 1, wherein the Flt3 ligand comprises at least 100 amino acid residues and the Flt3 ligand has at least 40% identity to the amino acid sequence set forth in SEQ ID NO:2, in which the percentage identity is determined over an amino acid sequence of identical size to the amino acid sequence set forth in SEQ ID NO:2, and the Flt3 ligand substantially retains its biological activity.
- 9. (Currently amended) The chimeric protein of claim 1, wherein the Flt3 ligand binds to an antibody that specifically binds to an amino acid sequence set forth in SEQ ID NO:2 and the Flt3 ligand substantially reatins retains its biological biological activity.
- 10. (Original) The chimeric protein of claim 1, wherein the Flt3 ligand comprises the amino acid sequence set forth in SEQ ID NO:2.
- 11. (Original) The chimeric protein of claim 1, wherein the Flt3 ligand comprises an amino acid sequence that is at least 80% identical to amino acids 28 to 128 of SEQ ID NO:2.
- 12. (Original) The chimeric protein of claim 1, wherein the Flt3 ligand comprises amino acids 28 to 128 of SEQ ID NO:2.
- 13. (Original) The chimeric protein of claim 1, wherein the Flt3 ligand comprises an amino acid sequence selected from the group consisting of amino acid residues 28-160 of SEQ ID NO:2, and amino acid residues 28-182 of SEQ ID NO:2.
- 14. (Original) The chimeric protein of claim 1, wherein the tumoricidal agent is an antibody.
- 15. (Original) The chimeric protein of claim 14, wherein the antibody is selected from the group consisting of an intact antibody, a Fab fragment, a Fab' fragment, a F(ab')2 fragment, a Fv

fragment, a diabody, a single-chain antibody and a multi-specific antibody formed from antibody fragments.

- 16. (Currently amended) The chimeric protein of claim 14, wherein the antibody is selected from the group consisting of an anti-p230 antibody, an anti-CD29 antibody, an anti-Her2 antibody, an anti-Her3 antibody, an anti-Her4 antibody, an anti-EGFR antibody or a biologically active fragment thereof.
- 17. (Original) The chimeric protein of claim 14, wherein the antibody is a human or humanized antibody.
- 18. (Original) The chimeric protein of claim 1, wherein the tumoricidal agent is selected from the group consisting of Fas ligand, TNF, TRAIL, or a biologically active extracellular domain thereof.
- 19. (Original) The chimeric protein of claim 1, wherein the Flt3 ligand is located at the N-terminus of the chimeric protein.
- 20. (Original) The chimeric protein of claim 1, wherein the Flt3 ligand is located at the C-terminus of the chimeric protein.
- 21. (Currently amended) The chimeric protein of claim 1, wherein the Flt3 ligand and the tumoricidal targeting agent is separated by a linking peptide.
- 22. (Original) The chimeric protein of claim 21, wherein the linking peptide is (Gly4Ser)3.
- 23. (Original) The chimeric protein of claim 1, which comprises the amino acid sequence set forth in SEQ ID NO:24, SEQ ID NO:26, SEQ ID NO:38, SEQ ID NO:30, SEQ ID NO:32, SEQ

ID NO:34, SEQ ID NO:44, SEQ ID NO:46, SEQ ID NO:48, SEQ ID NO:58, SEQ ID NO:60, SEQ ID NO:62, SEQ ID NO:64, SEQ ID NO:66 or SEQ ID NO:68.

24-34 (Cancelled)

- 35. (Currently amended) A pharmaceutical composition comprising an effective amount of a chimeric protein of claim 1 comprising a Flt3 ligand and a proteinuous or peptidyl agent, and a pharmaceutically acceptable carrier or excipient.
- 36. (Currently amended) A kit comprising an effective amount of a chimeric protein of claim 1 comprising a Fit3 ligand and a proteinuous or peptidyl agent, and an instruction means for administering said chimeric protein.
- 37. (Currently amended) A method for treating neoplasm in a mammal, which method comprises administering to a mammal to which such treatment is needed or desirable, an effective amount of a chimeric protein of claim 1 comprising a Flt3 ligand and a proteinuous or peptidyl agent.
- 38. (Original) The method of claim 37, wherein the mammal is a human.
- 39. (Original) The method of claim 37, wherein the neoplasm is melanoma, breast cancer or hepatocellular carcinoma.
- 40. (Currently amended) A combination, which combination comprises:
- a) an effective amount of a chimeric protein of claim 1 comprising a Flt3 ligand and a proteinuous or peptidyl agent; and
- b) an effective amount of an anti-neoplasm agent.

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- 41. (Original) The combination of claim 40, wherein the anti-neoplasm agent is an agent that treats melanoma, breast cancer or hepatocellular carcinoma.
- 42. (Original) A method for treating neoplasm in a mammal, which method comprises administering to a mammal to which such treatment is needed or desirable, an effective amount of a combination of claim 40.
- 43. (Currently amended) A method for inducing caspase-3 mediated apoptosis in a cell, which method comprises administering to a cell to which such induction is needed or desirable, an effective amount of a chimeric protein of claim 1 comprising a Flt3 ligand and a proteinuous or peptidyl agent.
- 44. (Original) The method of claim 43, wherein the cell is a mammalian cell.
- 45. (Original) The method of claim 44, wherein the cell is a mammalian neoplasm cell.
- 46. (Original) The method of claim 43, wherein the cell is contained in a mammal.
- 47. (Currently amended) A vaccine comprising an effective amount of a chimeric protein of claim 1 comprising a Flt3-ligand and a proteinuous or peptidyl agent, and an immune response potentiator.
- 48. (Currently amended) A method for eliciting an anti-neoplasm immune response in a mammal, which method comprises administering to a mammal to which such ellicitation elicitation is needed or desirable, an effective amount of a vaccine of claim 47.
- 49. (Currently amended) A method for producing a tumor-specific lymphocyte, which method comprises administering to a mammal an effective amount of a chimeric protein of claim

1 comprising a Flt3 ligand and a proteinuous or peptidyl-agent to generate a tumor-specific lymphocyte, and recovering said generated tumor-specific lymphocyte from said mammal.

- 50. (New) A chimeric protein comprising a Flt3 ligand, or a biologically active fragment thereof, and an antibody which inhibits proliferation or reduces viability of tumor cells.
- 51. (New) The chimeric protein of claim 50, wherein the antibody is selected from the group consisting of an intact antibody, a Fab fragment, a Fab' fragment, a F(ab')2 fragment, a Fv fragment, a diabody, a single-chain antibody and a multi-specific antibody formed from antibody fragments.
- 52. (New) The chimeric protein of claim 50, wherein the antibody is selected from the group consisting of an anti-p230 antibody, an anti-CD20 antibody, an anti-Her2 antibody, an anti-Her3 antibody, an anti-Her4 antibody, an anti-EGFR antibody or a biologically active fragment thereof.
- 53. (New) The chimeric protein of claim 50, wherein the antibody is a human or humanized antibody.
- 54. (New) The chimeric protein of claim 50, wherein the Flt3 ligand is located at the N-terminus of the chimeric protein.
- 55. (New) The chimeric protein of claim 50, wherein the Flt3 ligand is located at the C-terminus of the chimeric protein.
- 56. (New) The chimeric protein of claim 50, wherein the Flt3 ligand and the antibody is separated by a linking peptide.

(New) The chimeric protein of claim 57, wherein the linking peptide is (Gly4Ser)3. 57.